ELSEVIER

Physica C 272 (1996) 343–345

PHYSICA C

Author Index to Volume 272

Aftab, M., see Hasanain, S.K., **272**, 43
Aldinger, F., see Sotelo, A., **272**, 115
Aligia, A.A. and J.M. Eroles, Neutron-diffraction pattern observed in $YBa_2Cu_3O_{6.35}$: no better explanation than oxygen ordering, **272**, 197
Alloul, H., see Dooglav, A.V., **272**, 242
Altshuler, E., see López, J., **272**, 13
Amato, A., see Pomjakushin, V.Yu., **272**, 250
Antipov, E.V., see Goodilin, E.A., **272**, 65
Ashworth, S.P., see Ciszek, M., **272**, 319

Babushkina, N.A., A.P. Zhernov, A.V. Inyushkin, T.N. Kulagina, V.I. Ozhogin and L.V. Molchanova, Anomalous isotope effect in high-temperature superconductor LSCO with 3d-impurities, **272**, 257
Balagurov, A.M., V.Yu. Pomjakushin, V.G. Simkin and A.A. Zakharov, Neutron diffraction study of phase separation in $La_2CuO_{4+\delta}$ single crystals, **272**, 277
Balakirev, V.G., see Goodilin, E.A., **272**, 65
Bender, H., see Lin, C.T., **272**, 285
Bennett, L.H., see Hill, M.D., **272**, 204
Bingert, J., see Wenk, H.-R., **272**, 1
Björnander, M., J. Magnusson, P. Svedlindh, P. Nordblad, D.P. Norton and F. Wellhofer, Frequency dependence of the AC-sheet conductivity in thin $YBa_2Cu_3O_{7-\delta}$ films, **272**, 326
Blendell, J.E., see Hill, M.D., **272**, 204
Bock, A., see Dieckmann, N., **272**, 269
Borsa, F., see Wani, B.N., **272**, 187
Bram, A., J. Markl, I.P. Makarova, H. Burzlaff, G. Saemann-Ischenko and V.I. Simonov, Changes in the distribution of electron density in $Nd_{2-x}Ce_xCuO_{4-y}$, $x = 0.13$ during cooldown, **272**, 209
Brinkmann, D., see Kumagai, K., **272**, 301
Brom, H.B., see Fritschij, F.C., **272**, 220
Burzlaff, H., see Bram, A., **272**, 209

Campbell, A.M., see Ciszek, M., **272**, 319
Capponi, J.J., see Loureiro, S.M., **272**, 94
Chateigner, D., see Wenk, H.-R., **272**, 1
Chen, H., see Hu, A., **272**, 297
Chen, J.M., R.S. Liu and S.F. Hu, Electronic structure in $(Hg_{0.5}Pb_{0.5})Sr_2(Ca_{1-x}Y_x)Cu_2O_7$ compounds studied by soft X-ray absorption spectroscopy, **272**, 180
Ciszek, M., S.P. Ashworth, B.A. Glowacki, A.M. Campbell and P. Haldar, Transport AC losses in multifilamentary Ag/Bi-2223 tapes in low external DC magnetic fields, **272**, 319
Cook, L.P., see Wong-Ng, W., **272**, 87
Cooper, J.R., see Fisher, I.R., **272**, 125
Czart, W.R., T. Kostyrko and S. Robaszkiewicz, Superfluid characteristics of the attractive Hubbard model for various lattice structures, **272**, 51

De Jongh, L.J., see Fritschij, F.C., **272**, 220
Desgardin, G., see Nhien, S., **272**, 309
Dieckmann, N., M. Rübhausen, A. Bock, M. Schilling, K.-O. Subke, U. Merkt and E. Holzinger-Schweiger, Magnetic and phononic excitations in $Y_{1-x}Pr_xBa_2Cu_3O_7$ films, **272**, 269
Ding, S.Y., see Zeng, Z.Y., **272**, 101
Dooglav, A.V., H. Alloul, M.V. Eremin and A.G. Volodin, NMR study of the low temperature magnetic excitations in $Rba_2(Cu_{1-y}Ni_y)_3O_6$ (R = Y, Tm), **272**, 242
Downes, S., see Law, D.S.-L., **272**, 233
Drillon, M., see Fritschij, F.C., **272**, 220
Duginov, V.N., see Pomjakushin, V.Yu., **272**, 250

Eremin, M.V., see Dooglav, A.V., **272**, 242
Eroles, J.M., see Aligia, A.A., **272**, 197
Ertaş, D. and D.R. Nelson, Irreversibility, mechanical entanglement and thermal melting in superconducting vortex crystals with point impurities, **272**, 79

Fisher, I.R. and J.R. Cooper, Effect of sample density on the resistivity and Hall coefficient of polycrystalline $La_{1.83}Sr_{0.17}CuO_4$, **272**, 125
Fleisher, V.G., R. Laiho, E. Lähderanta, Yu.P. Stepanov and K.B. Traito, Magnetization of submicron superconducting YBCO particles: isolated single vortices versus critical state model, **272**, 26
Fossheim, K., see Gupta, A., **272**, 33
Fritschij, F.C., H.B. Brom, L.J. de Jongh, A. Tighezza, J.L. Rehspringer and M. Drillon, ^{19}F NMR on $Pr_2CuO_{4-y}F_x$ and $Nd_2CuO_{4-x}F_x$, **272**, 220

García, S., see López, J., **272**, 13
Gladyshevskii, R.E., see Triscone, G., **272**, 21
Glowacki, B.A., see Ciszek, M., **272**, 319

Gmelin, E., see Lin, C.T., **272**, 285
Goodilin, E.A., N.N. Oleynikov, E.V. Antipov, R.V. Shpanchenko, G.Yu. Popov, V.G. Balakirev and Yu.D. Tretyakov, On the stability region and structure of the $Nd_{1+x}Ba_{2-x}Cu_3O_y$ solid solution, **272**, 65
Gorius, M.F., see Loureiro, S.M., **272**, 94
Gupta, A., E.D. Tuset, M.G. Karkut and K. Fossheim, Short time magnetic relaxation in $Bi_2Sr_2Ca_2Cu_3O_{10}$ tapes: a study of thermally activated flux motion and vortex glass transition, **272**, 33
Gygax, F.N., see Pomjakushin, V.Yu., **272**, 250

Haldar, P., see Ciszek, M., **272**, 319
Han, S.H., see Triscone, G., **272**, 21
Hasanain, S.K., S. Manzoor and M. Aftab, Peak shifts in magnetization rotation effects of anisotropy and pinning, **272**, 43
Hayes, N., see Law, D.S.-L., **272**, 233
Hellstrom, E., see Wenk, H.-R., **272**, 1
Herlach, D., see Pomjakushin, V.Yu., **272**, 250
Herrmann, J., see Triscone, G., **272**, 21
Hill, M.D., J.E. Blendell and L.H. Bennett, Reduced microcrack density in melt processed $(Y,Sm)Ba_2Cu_3O_{6+x}$, **272**, 204
Holzinger-Schweiger, E., see Dieckmann, N., **272**, 269
Hu, A., S. Jia, H. Chen and Z. Zhao, Superconducting behaviours of melt textured $Nd_{1+x}Ba_{2-x}Cu_3O_y$ undergoing heat treatments in flowing argon and oxygen, **272**, 297
Hu, S.F., see Chen, J.M., **272**, 180

Ikeda, S., see Kumagai, K., **272**, 301
Inyushkin, A.V., see Babushkina, N.A., **272**, 257

Jia, S., see Hu, A., **272**, 297
Jiang, F., see Wong-Ng, W., **272**, 87
Junod, A., see Meingast, C., **272**, 106

Karkut, M.G., see Gupta, A., **272**, 33
Khan, H.R., see Thompson, J.R., **272**, 171
Koshizuka, N., see Pradhan, A.K., **272**, 161
Kostyrko, T., see Czart, W.R., **272**, 51
Kulagina, T.N., see Babushkina, N.A., **272**, 257
Kumagai, K., S. Ikeda, J. Roos, M. Mali and D. Brinkmann, ^{195}Pt and ^{11}B NMR studies of $LaPt_2B_2C$ and YNi_2B_2C, **272**, 301
Kuroda, K., see Pradhan, A.K., **272**, 161

Lähderanta, E., see Fleisher, V.G., **272**, 26
Laiho, R., see Fleisher, V.G., **272**, 26
Law, D.S.-L., M.N. Mikheeva, V.G. Nazin, A.V. Svishchev, M.B. Tsetlin, N. Hayes and S. Downes, Resonance photoelectron emission near the excitation threshold of lanthanum 5p states for La_2CuO_{4+x} and related compounds, **272**, 233
Lee, M.W., M.F. Tai and J.B. Shi, Scaling law for vortex dynamics in Rb_3C_{60} superconductor, **272**, 137
Lee, M.W., see Tai, M.F., **272**, 131
Le Floch, S., see Loureiro, S.M., **272**, 94
Lin, C.T., A.M. Niraimathi, Y. Yan, K. Peters, H. Bender, E. Schönherr and E. Gmelin, Single crystals of $Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ and their characterization, **272**, 285
Liu, R.S., see Chen, J.M., **272**, 180
Loktev, V.M. and Yu.G. Pogorelov, Metallization and superconductivity in doped metal-oxide layered compounds, **272**, 151
López, J., P. Muné, S. García and E. Altshuler, Possible interpretation on the existence of an anomalous inversion of some ZFC and FC transport characteristics in YBCO and BSCCO ceramic superconductors, **272**, 13
Loureiro, S.M., C. Stott, L. Philip, M.F. Gorius, M. Perroux, S. Le Floch, J.J. Capponi, D. Xenikos, P. Toulemonde and J.L. Tholence, The importance of the precursor in high-pressure synthesis of Hg-based superconductors, **272**, 94

Magnusson, J., see Björnander, M., **272**, 326
Majewski, P., see Sotelo, A., **272**, 115
Majoroš, M., Hysteretic losses at a gap in a thin sheet of hard superconductor carrying alternating transport current, **272**, 62
Makarova, I.P., see Bram, A., **272**, 209
Mali, M., see Kumagai, K., **272**, 301
Manzoor, S., see Hasanain, S.K., **272**, 43
Maple, M.B., see Triscone, G., **272**, 21
Markl, J., see Bram, A., **272**, 209
Meingast, C., A. Junod and E. Walker, Superconducting fluctuations and uniaxial-pressure dependence of T_c of a $Bi_2Sr_2CaCu_2O_{8+x}$ single crystal from high-resolution thermal expansion, **272**, 106
Merkt, U., see Dieckmann, N., **272**, 269
Mikheeva, M.N., see Law, D.S.-L., **272**, 233
Miller, L.L., see Wani, B.N., **272**, 187
Molchanova, L.V., see Babushkina, N.A., **272**, 257
Muné, P., see López, J., **272**, 13

Nakamura, M., see Yao, X., **272**, 227
Nakao, K., see Pradhan, A.K., **272**, 161
Nazin, V.G., see Law, D.S.-L., **272**, 233
Nelson, D.R., see Ertaş, D., **272**, 79
Nhien, S. and G. Desgardin, Synthesis and reaction mechanism of the high-T_c 2223 phase in the (Bi,Pb)-Sr-Ca-Cu-O system, **272**, 309
Niraimathi, A.M., see Lin, C.T., **272**, 285
Nordblad, P., see Björnander, M., **272**, 326
Norton, D.P., see Björnander, M., **272**, 326

Oleynikov, N.N., see Goodilin, E.A., **272**, 65
Ouladdiaf, B., see Wenk, H.-R., **272**, 1
Ozhogin, V.I., see Babushkina, N.A., **272**, 257

Park, H.-S., see Sotelo, A., **272**, 115
Pernet, M., see Wenk, H.-R., **272**, 1
Perroux, M., see Loureiro, S.M., **272**, 94
Peters, K., see Lin, C.T., **272**, 285
Philip, L., see Loureiro, S.M., **272**, 94
Pogorelov, Yu.G., see Loktev, V.M., **272**, 151
Pomjakushin, V.Yu., A.A. Zakharov, A. Amato, V.N. Duginov, F.N. Gygax, D. Herlach, A.N. Ponomarev and A. Schenck,

Spin-glass ordering in non phase separated $La_2CuO_{4.03}$ studied by μSR, **272**, 250
Pomjakushin, V.Yu., see Balagurov, A.M., **272**, 277
Ponomarev, A.N., see Pomjakushin, V.Yu., **272**, 250
Popov, G.Yu., see Goodilin, E.A., **272**, 65
Pradhan, A.K., K. Kuroda, K. Nakao and N. Koshizuka, Magnetoresistance and magnetization studies of $Nd_{1+x}Ba_{2-x}Cu_3O_{7-\delta}$ single crystals, **272**, 161

Qin, M.J. and X.X. Yao, AC response of high temperature superconductors in the flux creep region, **272**, 142

Rehspringer, J.L., see Fritschij, F.C., **272**, 220
Robaszkiewicz, S., see Czart, W.R., **272**, 51
Roos, J., see Kumagai, K., **272**, 301
Rübhausen, M., see Dieckmann, N., **272**, 269

Saemann-Ischenko, G., see Bram, A., **272**, 209
Schenck, A., see Pomjakushin, V.Yu., **272**, 250
Schilling, M., see Dieckmann, N., **272**, 269
Schönherr, E., see Lin, C.T., **272**, 285
Shi, J.B., see Lee, M.W., **272**, 137
Shi, J.B., see Tai, M.F., **272**, 131
Shiohara, Y., see Yao, X., **272**, 227
Shpanchenko, R.V., see Goodilin, E.A., **272**, 65
Simkin, V.G., see Balagurov, A.M., **272**, 277
Simonov, V.I.., see Bram, A., **272**, 209
Song, K.J., see Thompson, J.R., **272**, 171
Sotelo, A., P. Majewski, H.-S. Park and F. Aldinger, Synthesis of highly pure Bi-2223 ceramics using defined precursors, **272**, 115
Stepanov, Yu.P., see Fleisher, V.G., **272**, 26
Stott, C., see Loureiro, S.M., **272**, 94
Subke, K.-O., see Dieckmann, N., **272**, 269
Suh, B.J., see Wani, B.N., **272**, 187
Sun, A.M., see Zeng, Z.Y., **272**, 101
Sung, C.M., see Tai, M.F., **272**, 131
Svedlindh, P., see Björnander, M., **272**, 326
Svishchev, A.V., see Law, D.S.-L., **272**, 233

Tagami, M., see Yao, X., **272**, 227
Tai, M.F., C.M. Sung, M.W. Lee and J.B. Shi, The trend of magnetic irreversibility for Rb_3C_{60} and its implications, **272**, 131
Tai, M.F., see Lee, M.W., **272**, 137
Tholence, J.L., see Loureiro, S.M., **272**, 94
Thompson, J.R., H.R. Khan and K.J. Song, Influence of Ag additions on the superconducting properties of $HgBa_2CuO_{4+\delta}$ materials – hole doping and surface barrier effects, **272**, 171
Tighezza, A., see Fritschij, F.C., **272**, 220
Tomar, V.S., see Verma, M., **272**, 335
Toulemonde, P., see Loureiro, S.M., **272**, 94
Traito, K.B., see Fleisher, V.G., **272**, 26
Tretyakov, Yu.D., see Goodilin, E.A., **272**, 65
Triscone, G., R.E. Gladyshevskii, S.H. Han, J. Herrmann and M.B. Maple, Effect of pressure on the electrical resistivity of a 116 K Tl-1223 superconducting ceramic, **272**, 21
Tsetlin, M.B., see Law, D.S.-L., **272**, 233
Tuset, E.D., see Gupta, A., **272**, 33

Verma, M. and V.S. Tomar, Comparison of Co and Ni doping at copper sites in Y-124 high temperature superconductor, **272**, 335
Volodin, A.G., see Dooglav, A.V., **272**, 242

Walker, E., see Meingast, C., **272**, 106
Wani, B.N., L.L. Miller, B.J. Suh and F. Borsa, Fluorination of Sr_2CuO_3 and high temperature superconducting oxides, **272**, 187
Wellhofer, F., see Björnander, M., **272**, 326
Wenk, H.-R., D. Chateigner, M. Pernet, J. Bingert, E. Hellstrom and B. Ouladdiaf, Texture analysis of Bi-2212 and 2223 tapes and wires by neutron diffraction, **272**, 1
Wong-Ng, W., F. Jiang and L.P. Cook, Phase relationships of the Pb-Sr-Ca-O system in air, **272**, 87

Xenikos, D., see Loureiro, S.M., **272**, 94
Xu, X.N., see Zeng, Z.Y., **272**, 101

Yan, Y., see Lin, C.T., **272**, 285
Yao, X., M. Nakamura, M. Tagami and Y. Shiohara, Growth rate and superconductivity of Y(Sm)BCO single crystals, **272**, 227
Yao, X.X., see Qin, M.J., **272**, 142
Yao, X.X., see Zeng, Z.Y., **272**, 101
Yu, Y., see Zeng, Z.Y., **272**, 101

Zakharov, A.A., see Balagurov, A.M., **272**, 277
Zakharov, A.A., see Pomjakushin, V.Yu., **272**, 250
Zeng, Z.Y., Y. Yu, A.M. Sun, X.N. Xu, S.Y. Ding and X.X. Yao, Frequency dependence of ac magnetic response in type-II superconductors, **272**, 101
Zhao, Z., see Hu, A., **272**, 297
Zhernov, A.P., see Babushkina, N.A., **272**, 257

ELSEVIER

Physica C 272 (1996) 346–347

PHYSICA C

Analytic Subject Index to Volume 272

AC losses
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ tapes 319
AC magnetic response 101
AC-sheet conductivity
–of $YBa_2Cu_3O_{7-\delta}$ films 326
AC-susceptibility
–of Rb_3C_{60} 137
Activation energy 142
Annealing
–of $Nd_{1+x}Ba_{2-x}Cu_3O_y$ 297

Bose condensation 151

Cables 62
Copper valence 94
Coulomb interactions 197
Critical current density
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ tapes 319
–of BSCCO 2223 13
–of YBCO 13
–of $YBa_2Cu_3O_{6+x}$ 204
Critical state model 26, 43
Cu–O chains 197, 335
Cu–O planes 151, 335
Current density 101

Density of states 301

Electrical resistivity
–of $(Tl,Pb,Bi)_1(Sr,Ba)_2Ca_2Cu_3O_9$ 21
–of $La_{1.83}Sr_{0.17}CuO_4$ 125
–of $Nd_{1+x}Ba_{2-x}Cu_3O_y$ 297
–of $Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ single crystals 285
Electron density
–in $Nd_{2-x}Ce_xCuO_{4-\delta}$ 209
Electron-doped superconductor 151, 220
Electronic structure
–of $(Hg_{0.5}Pb_{0.5})Sr_2(Ca_{1-x}Y_x)Cu_2O_7$ 180
–of La_2CuO_{4+x} 233
–of La_2NiO_{4+y} 233
–of Nd_2CuO_4 233
Exchange energy 269

Fluctuation effects
–in $YBa_2Cu_3O_{7-\delta}$ films 326
Fluctuations 21
Flux creep theory 101
Flux creep 142
–in $Bi_2Sr_2Ca_2Cu_3O_{10}$ tape 33
–in $HgBa_2CuO_{4+\delta}$ 171
Flux density 142
Flux lattice melting 79
Flux line anisotropy 43
Flux motion
–in Rb_3C_{60} 137
Flux pinning 79
–in $Nd_{1+x}Ba_{2-x}Cu_3O_{7-\delta}$ single crystals 161

Glassy state 142
Granular superconductivity 125

Hall effect
–of $La_{1.83}Sr_{0.17}CuO_4$ 125
Hartree-Fock approximation 51
Hole concentration 171
Hubbard model 51
Hysteretic losses 62

I-V characteristic
–of BSCCO 2223 13
–of YBCO 13
Impurity scattering 151
Irreversibility line 79
–of $Nd_{1+x}Ba_{2-x}Cu_3O_{7-\delta}$ single crystals 161
–of Rb_3C_{60} 131
Isotope effect
–in $La_{2-y}Sr_yCu_{1-x}M_xO_4$ 257

Knight shift 301
Kosterlitz–Thouless theory 326

London penetration depth 51
–of $HgBa_2CuO_{4+\delta}$ 171

Magnetic properties
–of Rb_3C_{60} 131
Magnetic relaxation
–in $Bi_2Sr_2Ca_2Cu_3O_{10}$ tape 33
–of $Nd_{1+x}Ba_{2-x}Cu_3O_{7-\delta}$ single crystals 161
Magnetization
–of $HgBa_2CuO_{4+\delta}$ 171
–of $Sr_2CuO_2F_{2+x}$ 187
–of $Y_{1-x}Sm_xBa_2Cu_3O_{6+\delta}$ 227
–of YBCO particles 26
Magneto-transport 161
Magnons 269
Melt processing
–of $YBa_2Cu_3O_{6+x}$ 204
Melt texturing
–of $Nd_{1+x}Ba_{2-x}Cu_3O_y$ 297
Microcrack density
–in $YBa_2Cu_3O_{6+x}$ 204
Muon spin rotation
–in La_2CuO_{4+y} 250

NMR
–in $RBa_2(Cu_{1-y}Ni_y)_3O_6$ 242
–of $LaPt_2B_2C$ 301
–of $Sr_2CuO_2F_{2+x}$ 187
–of YNi_2B_2C 301
–on $Nd_2CuO_{4-x}F_x$ 220
–on $Pr_2CuO_{4-x}F_x$ 220
Neutron diffraction 1
–in $YBa_2Cu_3O_{6.35}$ 197

O–T transition 335
Orientation distribution function 1
Oxygen ordering
–in $YBa_2Cu_3O_{6.35}$ 197
Oxygen stoichiometry
–in $La_2CuO_{4+\delta}$ single crystals 277
–in La_2CuO_{4+y} 250

Pair breaking
–in $La_{2-y}Sr_yCu_{1-x}M_xO_4$ 257
Phase diagram
–of $Nd_{1+x}Ba_{2-x}Cu_3O_z$ solid solution 65
–of PbO–SrO–CaO 87
–of SrO–CaO 87

Phase separation
–in $La_2CuO_{4+\delta}$ single crystals 277
–in La_2CuO_{4+y} 250
Phonon mechanism
–in $La_{2-y}Sr_yCu_{1-x}M_xO_4$ 257
Pressure effect 21

Raman scattering
–of $Y_{1-x}Pr_xBa_2Cu_3O_7$ thin films 269
Resonance photoemission 233
Rotation magnetization
–of $YBa_2Cu_3O_{7-x}$ 43

Scaling law 137
Scanning electron microscopy
–of Bi-2223 309
Single crystal growth
–of $Y_{1-x}Sm_xBa_2Cu_3O_{6+\delta}$ 227
Single vortex trapping 26
Spin–lattice relaxation
–for $RBa_2(Cu_{1-y}Ni_y)_3O_6$ 242
Spin-glass state 250
Spin-lattice relaxation time
–of $LaPt_2B_2C$ 301
–of YNi_2B_2C 301
Stability region
–of $Nd_{1+x}Ba_{2-x}Cu_3O_z$ solid solution 65
Structural phase transition
–in Y-124 335
Structure
–of $(Ca,Sr)_2PbO_4$ 87
–of $La_2CuO_{4+\delta}$ single crystals 277
–of $Nd_{1+x}Ba_{2-x}Cu_3O_z$ solid solution 65
–of $Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ single crystals 285
–of $Nd_2CuO_{4-x}F_x$ 220
–of $Nd_{2-x}Ce_xCuO_{4-\delta}$ 209
–of $Pr_2CuO_{4-x}F_x$ 220
–of $YBa_2Cu_3O_{6.35}$ 197
Substitution effect 257
Substitution effects 227
–in Y-124 335
Superconducting fluctuations
–in $Bi_2Sr_2CaCu_2O_{8+x}$ single crystal 106
Superconducting 62
Surface barrier 171
Synthesis
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ 115
–of Bi-2223 309
–of $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 94
–of $Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ single crystals 285
–of $Sr_2CuO_2F_{2+x}$ 187

TEM
–of $Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ single crystals 285
Texture
–of $Bi_2Sr_2Ca_2Cu_3O_x$ tape 1
–of $Bi_2Sr_2CaCu_2O_x$ tape 1
Thermal expansion
–of $Bi_2Sr_2CaCu_2O_{8+x}$ single crystal 106
Topological defects 79

Uniaxial pressure dependence 106

Vortex glass transition
–in $Bi_2Sr_2Ca_2Cu_3O_{10}$ tape 33

X-ray diffraction
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ 115
XANES
–of $(Hg_{0.5}Pb_{0.5})Sr_2(Ca_{1-x}Y_x)Cu_2O_7$ 180

ELSEVIER

Physica C 272 (1996) 348

Materials Index to Volume 272

$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$
–synthesis 115
–x-ray diffraction 115
$(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ tapes
–AC losses 319
–critical current density 319
BSCCO 2223
–critical current density 13
–I-V characteristic 13
Bi-2223
–scanning electron microscopy 309
–synthesis 309
$Bi_2Sr_2Ca_2Cu_3O_x$ tape
–texture 1
$Bi_2Sr_2Ca_2Cu_3O_{10}$ tape
–flux creep 33
–magnetic relaxation 33
–vortex glass transition 33
$Bi_2Sr_2CaCu_2O_x$ tape
–texture 1
$Bi_2Sr_2CaCu_2O_{8+x}$ single crystal
–superconducting fluctuations 106
–thermal expansion 106

$(Ca,Sr)_2PbO_4$
–structure 87

$HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$
–synthesis 94
$HgBa_2CuO_{4+\delta}$
–flux creep 171
–London penetration depth 171
–magnetization 171
$(Hg_{0.5}Pb_{0.5})Sr_2(Ca_{1-x}Y_x)Cu_2O_7$
–electronic structure 180
–XANES 180

$La_{1.83}Sr_{0.17}CuO_4$
–electrical resistivity 125
–Hall effect 125
$La_2CuO_{4+\delta}$ single crystals
–oxygen stoichiometry 277
–phase separation 277
–structure 277
La_2CuO_{4+x}
–electronic structure 233
La_2CuO_{4+y}
–muon spin rotation 250
–oxygen stoichiometry 250
–phase separation 250
La_2NiO_{4+y}
–electronic structure 233
$La_{2-y}Sr_yCu_{1-x}M_xO_4$
–isotope effect 257
–pair breaking 257
–phonon mechanism 257
$LaPt_2B_2C$
–NMR 301
–spin-lattice relaxation time 301

$Nd_{1+x}Ba_{2-x}Cu_3O_y$
–annealing 297
–electrical resistivity 297
–melt texturing 297
$Nd_{1+x}Ba_{2-x}Cu_3O_z$ solid solution
–phase diagram 65
–stability region 65
–structure 65
$Nd_{1+x}Ba_{2-x}Cu_3O_{7-\delta}$ single crystals
–flux pinning 161
–irreversibility line 161
–magnetic relaxation 161
$Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ single crystals
–electrical resistivity 285
–structure 285
–synthesis 285
–TEM 285
Nd_2CuO_4
–electronic structure 233
$Nd_2CuO_{4-x}F_x$
–NMR 220
–structure 220
$Nd_{2-x}Ce_xCuO_{4-\delta}$
–electron density 209
–structure 209

PbO–SrO–CaO
–phase diagram 87
$Pr_2CuO_{4-x}F_x$
–NMR 220
–structure 220

$RBa_2(Cu_{1-y}Ni_y)_3O_6$
–NMR 242
–spin–lattice relaxation 24
Rb_3C_{60}
–AC-susceptibility 137
–flux motion 137
–irreversibility line 131
–magnetic properties 131

$Sr_2CuO_2F_{2+x}$
–magnetization 187
–NMR 187
–synthesis 187
SrO–CaO
–phase diagram 87

$(Tl,Pb,Bi)_1(Sr,Ba)_2Ca_2Cu$
–electrical resistivity 21

Y-124
–structural phase transitio
–substitution effects 335
$Y_{1-x}Pr_xBa_2Cu_3O_7$ thin
–Raman scattering 269
$Y_{1-x}Sm_xBa_2Cu_3O_{6-\delta}$
–magnetization 227
–single crystal growth 22
YBCO particles
–magnetization 26
YBCO
–critical current density
–I-V characteristic 13
$YBa_2Cu_3O_{6+x}$
–critical current density
–melt processing 204
–microcrack density 204
$YBa_2Cu_3O_{6.35}$
–neutron diffraction 197
–oxygen ordering 197
–structure 197
$YBa_2Cu_3O_{7-\delta}$ films
–AC-sheet conductivity
–fluctuation effects 326
$YBa_2Cu_3O_{7-x}$
–rotation magnetization
YNi_2B_2C
–NMR 301
–spin-lattice relaxation ti

ELSEVIER

Physica C 272 (1996) 348

PHYSICA C

Materials Index to Volume 272

$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$
–synthesis 115
–x-ray diffraction 115
$(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ tapes
–AC losses 319
–critical current density 319
BSCCO 2223
–critical current density 13
–I-V characteristic 13
Bi-2223
–scanning electron microscopy 309
–synthesis 309
$Bi_2Sr_2Ca_2Cu_3O_x$ tape
–texture 1
$Bi_2Sr_2Ca_2Cu_3O_{10}$ tape
–flux creep 33
–magnetic relaxation 33
–vortex glass transition 33
$Bi_2Sr_2CaCu_2O_x$ tape
–texture 1
$Bi_2Sr_2CaCu_2O_{8+x}$ single crystal
–superconducting fluctuations 106
–thermal expansion 106

$(Ca,Sr)_2PbO_4$
–structure 87

$HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$
–synthesis 94
$HgBa_2CuO_{4+\delta}$
–flux creep 171
–London penetration depth 171
–magnetization 171
$(Hg_{0.5}Pb_{0.5})Sr_2(Ca_{1-x}Y_x)Cu_2O_7$
–electronic structure 180
–XANES 180

$La_{1.83}Sr_{0.17}CuO_4$
–electrical resistivity 125
–Hall effect 125
$La_2CuO_{4+\delta}$ single crystals
–oxygen stoichiometry 277
–phase separation 277
–structure 277
La_2CuO_{4+x}
–electronic structure 233
La_2CuO_{4+y}
–muon spin rotation 250
–oxygen stoichiometry 250
–phase separation 250
La_2NiO_{4+y}
–electronic structure 233
$La_{2-y}Sr_yCu_{1-x}M_xO_4$
–isotope effect 257
–pair breaking 257
–phonon mechanism 257
$LaPt_2B_2C$
–NMR 301
–spin-lattice relaxation time 301

$Nd_{1+x}Ba_{2-x}Cu_3O_y$
–annealing 297
–electrical resistivity 297
–melt texturing 297
$Nd_{1+x}Ba_{2-x}Cu_3O_z$ solid solution
–phase diagram 65
–stability region 65
–structure 65
$Nd_{1+x}Ba_{2-x}Cu_3O_{7-\delta}$ single crystals
–flux pinning 161
–irreversibility line 161
–magnetic relaxation 161
$Nd_{1+x}Ba_{2-x}Cu_{3-y}Ga_yO_{7-\delta}$ single crystals
–electrical resistivity 285
–structure 285
–synthesis 285
–TEM 285
Nd_2CuO_4
–electronic structure 233
$Nd_2CuO_{4-x}F_x$
–NMR 220
–structure 220
$Nd_{2-x}Ce_xCuO_{4-\delta}$
–electron density 209
–structure 209

PbO–SrO–CaO
–phase diagram 87
$Pr_2CuO_{4-x}F_x$
–NMR 220
–structure 220

$RBa_2(Cu_{1-y}Ni_y)_3O_6$
–NMR 242
–spin–lattice relaxation 242
Rb_3C_{60}
–AC-susceptibility 137
–flux motion 137
–irreversibility line 131
–magnetic properties 131

$Sr_2CuO_2F_{2+x}$
–magnetization 187
–NMR 187
–synthesis 187
SrO–CaO
–phase diagram 87

$(Tl,Pb,Bi)_1(Sr,Ba)_2Ca_2Cu_3O_9$
–electrical resistivity 21

Y-124
–structural phase transition 335
–substitution effects 335
$Y_{1-x}Pr_xBa_2Cu_3O_7$ thin films
–Raman scattering 269
$Y_{1-x}Sm_xBa_2Cu_3O_{6+\delta}$
–magnetization 227
–single crystal growth 227
YBCO particles
–magnetization 26
YBCO
–critical current density 13
–I-V characteristic 13
$YBa_2Cu_3O_{6+x}$
–critical current density 204
–melt processing 204
–microcrack density 204
$YBa_2Cu_3O_{6.35}$
–neutron diffraction 197
–oxygen ordering 197
–structure 197
$YBa_2Cu_3O_{7-\delta}$ films
–AC-sheet conductivity 326
–fluctuation effects 326
$YBa_2Cu_3O_{7-x}$
–rotation magnetization 43
YNi_2B_2C
–NMR 301
–spin-lattice relaxation time 301